

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193343

Luminaire Tested: **GLEON-AF-05-LED-E1-5MQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-5MQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20604 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

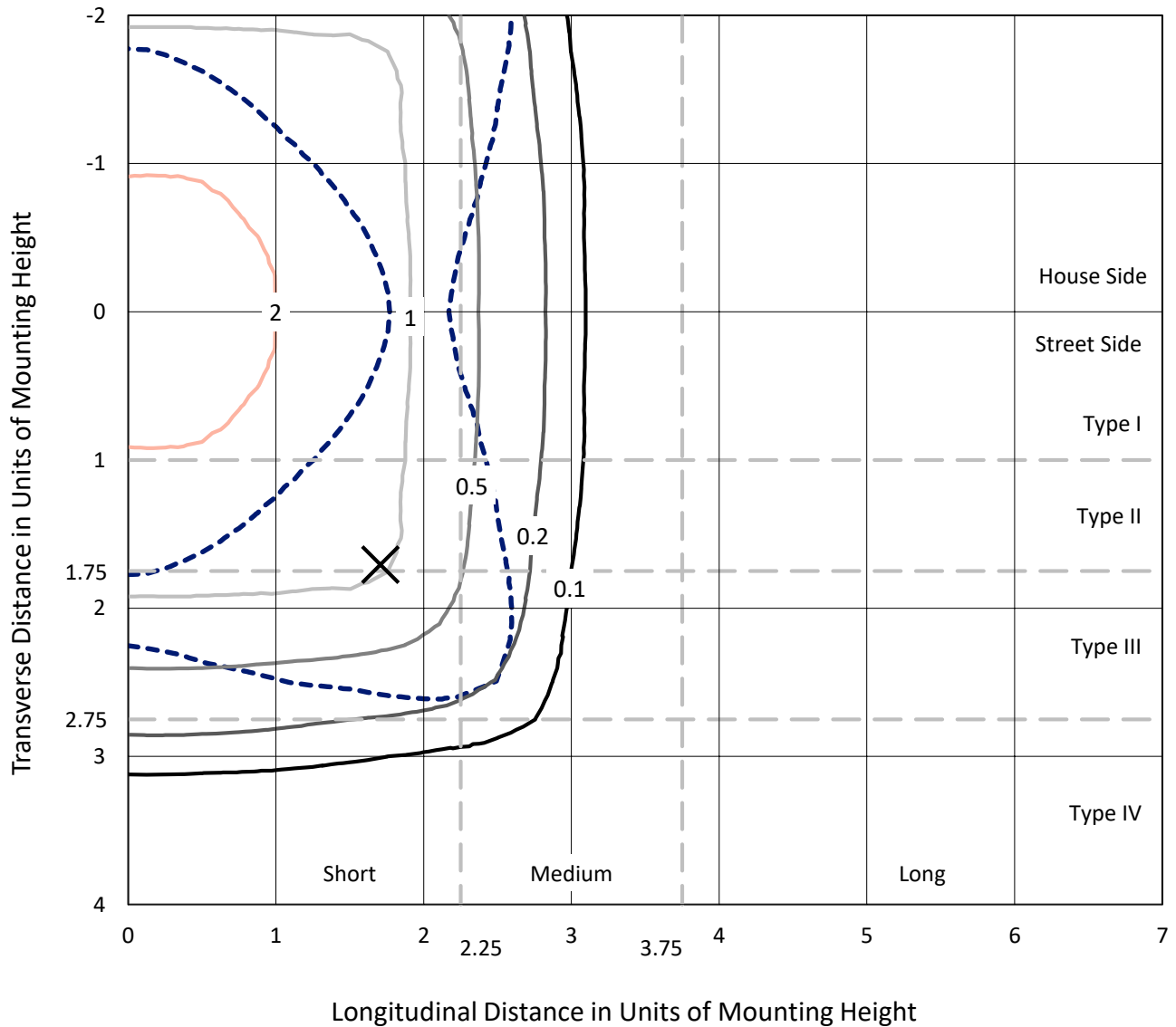


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Iso-Footcandle Lines of Horizontal Illumination

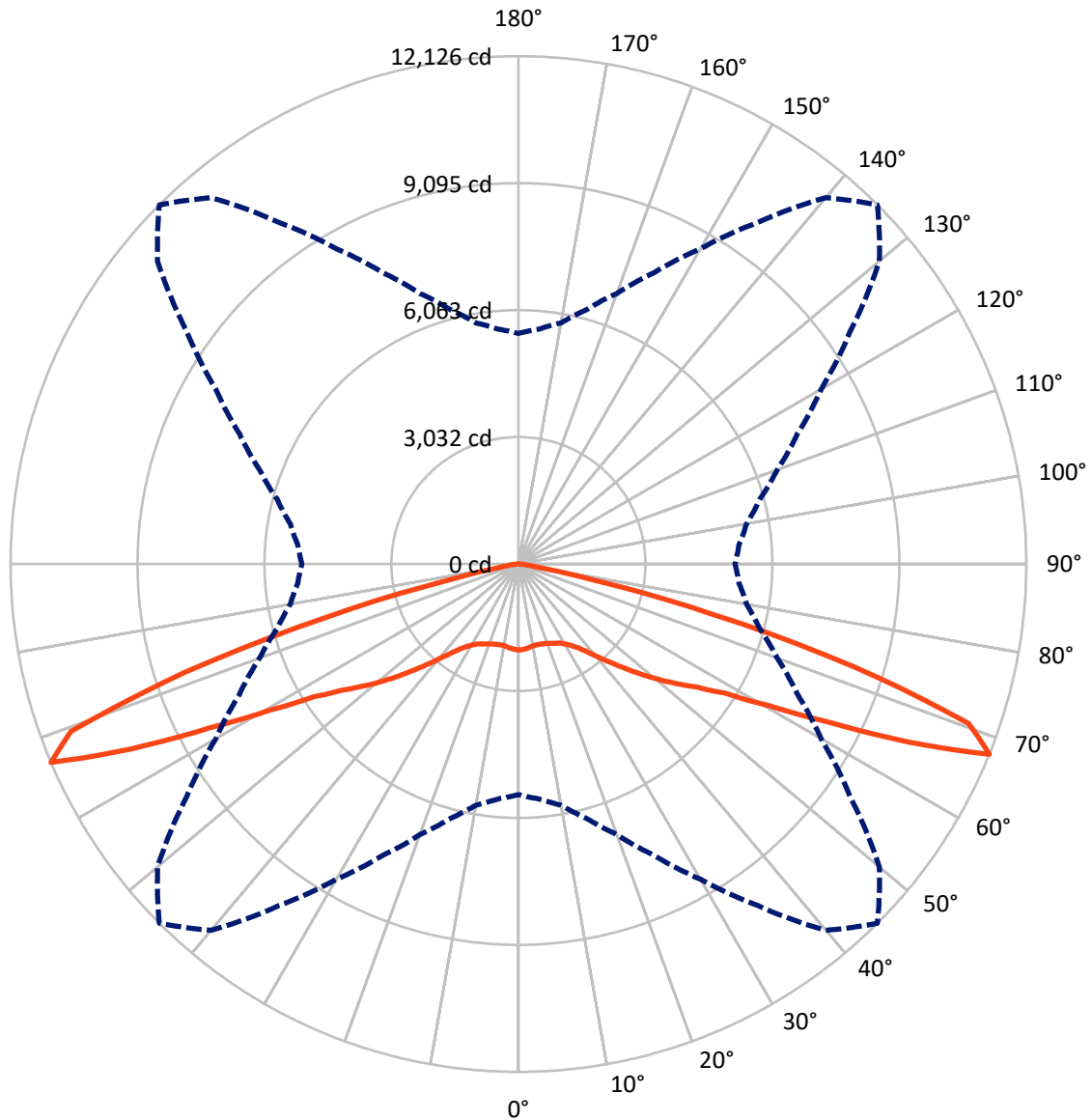
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10302.0	0.0	10302.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10302.0	0.0	10302.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20604.0	0.0	20604.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	0.9
10°-20°	557.7	2.7
20°-30°	948.0	4.6
30°-40°	1549.7	7.5
40°-50°	2766.5	13.4
50°-60°	4664.4	22.6
60°-70°	7238.5	35.1
70°-80°	2543.3	12.3
80°-90°	143.7	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20604.0	100.0
0°-180°	20604.0	100.0



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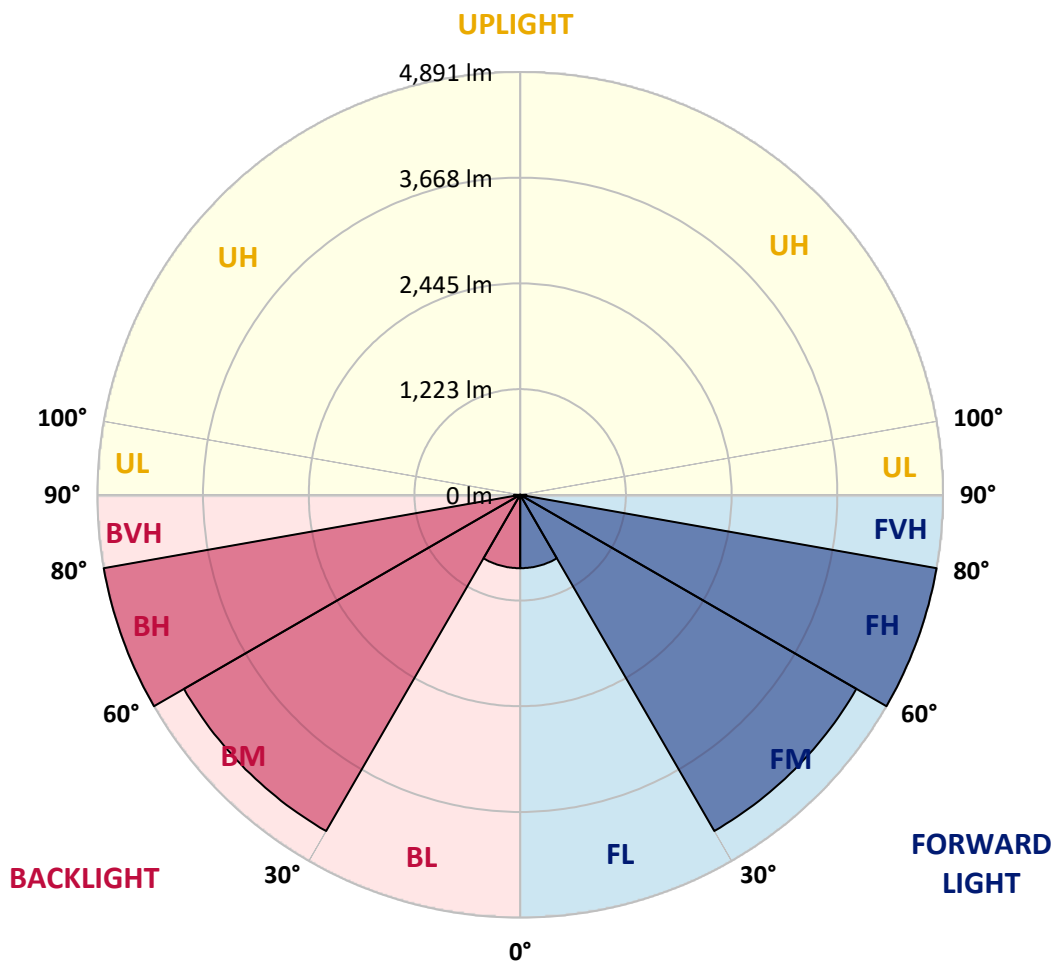
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.9	4.1			
FM	(30°-60°)	4490.3	21.8			
FH	(60°-80°)	4890.9	23.7			G2/5000
FVH	(80°-90°)	71.9	0.3			G1/100
BL	(0°-30°)	848.9	4.1	B2/1000		
BM	(30°-60°)	4490.3	21.8	B3/5000		
BH	(60°-80°)	4890.9	23.7	B4/5000		G2/5000
BVH	(80°-90°)	71.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3
2.5°	2045.7	2047.6	2047.6	2047.6	2046.6	2046.6	2044.7	2046.6	2045.7	2042.9	2043.8
5°	2028.6	2030.5	2030.5	2029.6	2032.4	2031.5	2028.6	2030.5	2029.6	2027.7	2028.6
7.5°	2004.0	2006.8	2006.8	2005.9	2008.7	2007.8	2005.9	2006.8	2006.8	2004.0	2004.0
10°	1976.5	1978.4	1978.4	1977.5	1982.2	1982.2	1981.3	1984.1	1985.1	1982.2	1980.3
12.5°	1950.9	1953.8	1953.8	1957.6	1962.3	1964.2	1968.9	1972.7	1976.5	1975.6	1971.8
15°	1935.8	1937.7	1941.5	1946.2	1953.8	1960.4	1968.0	1976.5	1984.1	1986.0	1980.3
17.5°	1926.3	1929.2	1934.8	1941.5	1951.9	1963.3	1974.6	1986.0	1996.4	2000.2	1993.6
20°	1923.5	1925.4	1931.0	1942.4	1956.6	1973.7	1989.8	2003.1	2017.3	2022.0	2017.3
22.5°	1929.2	1932.9	1939.6	1952.8	1971.8	1993.6	2012.5	2030.5	2048.5	2057.1	2050.4
25°	1954.7	1958.5	1967.1	1984.1	2005.0	2027.7	2049.5	2070.3	2086.4	2095.0	2090.2
27.5°	2002.1	2006.8	2017.3	2034.3	2057.1	2081.7	2105.4	2122.4	2135.7	2138.6	2132.9
30°	2073.2	2083.6	2095.9	2114.9	2141.4	2162.2	2185.9	2201.1	2217.2	2217.2	2212.5
32.5°	2184.0	2194.5	2207.7	2225.7	2246.6	2269.3	2290.2	2303.4	2320.5	2321.4	2310.1
35°	2349.8	2354.6	2366.0	2377.3	2396.3	2416.2	2434.2	2442.7	2456.9	2457.9	2447.4
37.5°	2568.7	2569.7	2577.3	2581.0	2598.1	2619.9	2636.9	2642.6	2655.9	2654.0	2643.6
40°	2823.6	2828.3	2831.2	2836.9	2854.9	2875.7	2893.7	2896.6	2910.8	2907.9	2894.7
42.5°	3118.3	3120.2	3136.3	3144.8	3161.9	3172.3	3195.0	3197.9	3214.9	3207.4	3192.2
45°	3449.0	3466.0	3481.2	3498.2	3516.2	3528.6	3546.6	3542.8	3554.1	3542.8	3534.2
47.5°	3796.7	3809.0	3843.1	3869.7	3899.0	3909.5	3935.0	3923.7	3935.0	3918.9	3916.1
50°	4179.5	4201.3	4230.7	4261.0	4292.3	4309.3	4342.5	4328.3	4343.4	4328.3	4319.7
52.5°	4556.6	4562.3	4626.7	4671.3	4714.9	4734.8	4754.7	4748.0	4749.0	4748.0	4739.5
55°	4914.8	4928.1	4992.5	5053.1	5128.9	5184.8	5218.9	5215.1	5206.6	5198.1	5183.9
57.5°	5318.4	5331.7	5405.6	5480.5	5566.7	5646.3	5715.4	5786.5	5814.0	5821.6	5790.3
60°	5864.2	5863.3	5961.8	6052.8	6175.9	6294.4	6446.0	6600.4	6777.6	6860.0	6751.1
62.5°	6419.4	6442.2	6584.3	6745.4	6999.3	7246.6	7526.2	7800.9	8081.4	8309.7	8067.2
65°	6353.1	6440.3	6651.6	7016.4	7485.4	8042.5	8645.2	9282.9	9858.9	10255.0	9810.6
67.5°	5506.0	5630.2	5845.2	6288.7	6875.2	7678.7	8690.7	9951.8	11417.6	12126.4	11248.0
70°	3991.0	4131.2	4356.7	4789.7	5370.5	6134.2	7233.4	8747.5	10688.0	11402.5	10435.0
72.5°	1986.0	2061.8	2201.1	2476.8	2916.5	3536.1	4532.9	5988.3	7705.2	8360.9	7476.9
75°	674.6	709.7	733.4	823.4	962.7	1206.2	1701.7	2618.0	3993.8	4787.8	3936.9
77.5°	389.4	390.4	406.5	422.6	446.3	472.8	539.1	707.8	1224.2	1738.7	1266.8
80°	252.0	251.1	264.4	276.7	292.8	306.0	309.8	327.8	378.1	448.2	400.8
82.5°	130.8	146.9	176.2	192.3	222.7	228.4	220.8	214.1	226.5	235.0	240.7
85°	72.0	62.5	93.8	121.3	134.5	136.4	136.4	128.9	133.6	130.8	142.1
87.5°	33.2	30.3	37.0	59.7	63.5	54.0	56.9	50.2	36.0	35.1	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3
2.5°	2043.8	2044.7	2044.7	2047.6	2048.5	2050.4	2052.3	2053.3
5°	2027.7	2030.5	2028.6	2031.5	2031.5	2033.4	2033.4	2034.3
7.5°	2004.0	2006.8	2006.8	2006.8	2005.9	2008.7	2008.7	2008.7
10°	1979.4	1981.3	1980.3	1978.4	1976.5	1979.4	1978.4	1977.5
12.5°	1971.8	1967.1	1963.3	1961.4	1957.6	1958.5	1955.7	1955.7
15°	1976.5	1968.0	1961.4	1958.5	1954.7	1952.8	1950.9	1951.9
17.5°	1988.8	1978.4	1969.9	1965.2	1960.4	1957.6	1953.8	1954.7
20°	2010.6	1998.3	1986.0	1976.5	1968.0	1963.3	1960.4	1959.5
22.5°	2042.9	2024.8	2006.8	1992.6	1981.3	1974.6	1971.8	1969.9
25°	2079.8	2059.9	2039.1	2023.0	2011.6	2003.1	1997.4	1997.4
27.5°	2126.2	2110.1	2091.2	2072.2	2061.8	2053.3	2049.5	2047.6
30°	2203.9	2188.8	2173.6	2155.6	2142.3	2133.8	2127.2	2121.5
32.5°	2303.4	2291.1	2278.8	2265.5	2253.2	2241.8	2231.4	2226.7
35°	2443.7	2434.2	2425.7	2410.5	2405.8	2399.1	2393.4	2388.7
37.5°	2636.9	2633.2	2633.2	2617.0	2613.3	2610.4	2604.7	2605.7
40°	2890.9	2894.7	2889.9	2884.3	2881.4	2873.8	2873.8	2880.5
42.5°	3191.2	3194.1	3204.5	3195.0	3205.5	3196.0	3190.3	3195.0
45°	3539.9	3550.4	3571.2	3561.7	3568.4	3552.3	3532.4	3533.3
47.5°	3931.3	3940.7	3949.3	3942.6	3943.6	3917.0	3890.5	3883.9
50°	4337.7	4341.5	4346.3	4336.8	4338.7	4309.3	4279.0	4279.9
52.5°	4739.5	4757.5	4776.4	4750.9	4745.2	4712.0	4669.4	4652.3
55°	5199.0	5224.6	5202.8	5158.3	5113.8	5069.2	5013.3	5003.9
57.5°	5765.7	5722.1	5653.9	5569.5	5507.9	5445.4	5388.5	5364.9
60°	6554.0	6390.1	6266.9	6141.8	6063.2	5986.4	5911.6	5900.2
62.5°	7668.3	7385.0	7139.6	6880.9	6669.6	6504.7	6373.0	6336.1
65°	9064.9	8395.0	7814.2	7272.2	6801.3	6446.0	6222.4	6123.8
67.5°	9665.6	8342.9	7347.1	6577.7	5961.8	5531.6	5290.0	5169.7
70°	8493.6	6918.8	5835.8	5065.4	4504.5	4045.9	3827.0	3698.2
72.5°	5843.4	4401.2	3480.2	2840.7	2392.5	2008.7	1857.1	1845.8
75°	2623.7	1737.8	1197.7	922.9	777.0	675.6	644.3	620.6
77.5°	734.3	542.9	484.2	452.9	422.6	387.5	374.3	377.1
80°	357.2	337.3	324.1	304.2	276.7	247.3	234.0	239.7
82.5°	236.9	234.0	242.6	228.4	188.6	160.1	134.5	123.2
85°	144.0	145.9	148.8	149.7	127.0	89.1	60.6	68.2
87.5°	56.9	65.4	71.1	73.9	69.2	42.6	34.1	35.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)